# Falcon® 340 & 345

*Portable Data Collection Terminals*

## Solving Data Collection Needs

The Falcon® 340 & 345 are the latest members of the growing family of feature rich Falcon® Industrial data collection terminals from PSC. They were designed for easy integration in the supply chain of companies involved in logistics, manufacturing, retailing, warehousing and distribution, and in-store retail.

## A Favorite Among Users

These sleek new portable terminals were ergonomically designed with the end-user in mind. They are the lightest weight unit in their class, only 16.3 oz. / 465 g. Engineered to reduce fatigue, this weight is ideally balanced over the hand using a form-fit rubber-grip handle. Combine this with an integrated scan trigger, a large 16-line back-lit display and a complete 38 key alphanumeric keypad and the user enjoys hours of high performance data collection.
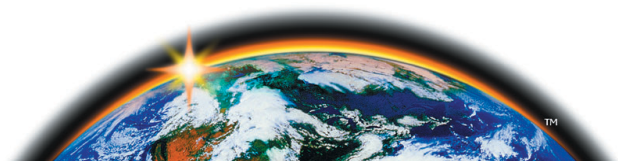
## No Lack of Performance Here

At the heart of the Falcon® 340 & 345 portable data terminals is a powerful 32 bit 486 class processor, running at 33MHz, with 8MB of RAM and 2MB of Flash ROM. This flexible architecture also supports an internal PCMCIA Type II PC card for additional memory or wireless LAN connectivity. Because the Falcon® 340 & 345 use a standard operating system, DOS 6.22, you can run applications previously developed for other Falcon® terminals and other DOS terminals. You can also use popular PC-based development tools like PSC's Universal Program Generator (UPG) or RF SDK to create custom applications for your data collection needs.

## Batch and Wireless Models

The Falcon® 340 with the 486 processor and 8MB of RAM is one of the most powerful batch terminals on the market today. Fast lookup and validation of your data is critical to productivity.

The Falcon® 345 sets the standard for flexibility when it comes to wireless communications, providing connectivity for data collection applications where real-time information is critical. The Falcon® 345 can be configured with any of the leading 2.4GHz spread spectrum wireless LAN solutions including Cisco (Aironet), Lucent, Proxim, and Symbol.

Additional flexibility comes when you can have a wireless connection of the Falcon® 345 terminals into your existing legacy system. With our PowerNet Twin Client product these new Falcon® terminals can support VT100, VT220, HP700/92, IBM 3270 and IBM 5250 terminal emulation, with screen formatter capabilities.

### Ideal for:

- Warehouse Management
- Inventory Control
- Outdoor Data Collection
- Retail In-Store

### Features:

- Standard, Long Range and Advanced Long Range integrated laser scanner options
- Removable handle with trigger
- Batch or Real-time Data Collection
- Powerful 486 class Processor
- DOS 6.22 Operating System
- Supports leading wireless LANs including Cisco (Aironet), Lucent, Proxim, Symbol

# Specifications
*Falcon® 340 & 345*

## PRODUCT and SYSTEM

### Mechanical

**Dimensions**
Length: 7.8" (19.8 cm)
Width at display: 3.4" (8.6 cm)
Width at grip: 2.5" (6.4 cm)
Height at grip: 1.6" (4.1 cm)

**Weight** (w/battery pack)
No radio, w/laser: 16.3 oz (465 g)
Radio, w/laser: 17.3 oz (490 g)

**Display**
Super-twist graphics LCD;
Backlight w/programmable timeout;
128x160 pixels, plus 8 on-screen icons;
Formats: 16x26, 16x20 & 8 lines x 20 characters

**Keypad**
38-key alphanumeric;
Single and double-click alpha;
5 dedicated function keys, 5 shifted;
Western-European character support

**Construction**
Industrial, high-strength polycarbonate/
ABS-blend plastic

### Environmental

**Temperature rating**
Operating: 14° to 122° F (-10° to 50° C)
Storage: -4° to 158° F (-20° to 70° C)
**Humidity:** 5 to 95% NC
**Shock:** multiple 4.0' / 1.2m drops to concrete

### Optical

**Light source** – Visible Laser Diode (VLD): 650nm
**Scan rate:** 35 scans/sec. nominal
**Depth of Field:** Refer to chart on this page
**Indicators:** Good read; scan
**Ambient light immunity**
Artificial light: 450 ft-candles (4,844 lux)
Sunlight: 8,000 ft-candles (86,112 lux)

### Decoding Capability
(autodiscriminates between)
UPC A, E / EAN 8,13 / JAN 8, 13
(P2 / P5, Code 128 EAN add-ons)

| | |
|---|---|
| Code 128 | Interleaved 2 of 5 |
| Code 39 | Standard 2 of 5 |
| Code 39 Full ASCII | Matrix 2 of 5 |
| Code 93 | MSI / Plessey |
| Code 11 | Ames |
| Codabar | Label Codes 4/5 |
| ISBN conversion | |

### Safety and Regulatory

**Electrical:** Complies to CE
**Emissions:** FCC Part 15 - Class A
**Laser classification:** CDRH Class II;
(CAUTION: Laser Radiation – do not stare into beam);
IEC 60825 Class 2

CE

### System

**Operating System**
ROM-DOS 6.22

**Microprocessor**
486 low power, 32-bit microprocessor - programmable speeds up to 33 MHz; Real-time clock

**Memory**
Flash: 2MB (DOS, BIOS, applications & data storage);
RAM: 8MB (for system operation, virtual-disk data storage)

**IR Communications Port**
Communication with Falcon IR dock; Supports IR portable printer; IrDA compatible

**Dock Communications**
RS232; X modem; Z modem; 16550 UART, up to 57,600 bps

**PC Card**
Internal PC Card Type I/II slot

**Speaker**
Programmable for volume, duration and pitch

**Power Options**
Rechargeable Nicad & NiMH battery packs; Falcon® dock; Falcon® battery charger

**Advanced Power Management**
(without PC Card)
Sleep/off mode with programmable timeout: ~2 mA; Doze mode: ~50 mA; Operating mode: >80 mA (option dependent, CPU speed and application); Rechargeable lithium backup battery; Low battery indicator (display icon)

**Radio Support** (Falcon® 345 w/Internal Antenna)
Cisco Aironet 350 Series
Lucent Orinoco
Proxim RangeLAN2
Symbol Spectrum24®

**Depth-of-Field Chart** (printing resolution, contrast and ambient light dependent; *Minimum distance determined by symbol length and scan angle)

| Label Density | Standard Range | Long Range | Advanced Long Range |
|---|---|---|---|
| 5 mil | 3.0" – 5.0" / 8.0" – 13.0 cm | | |
| 7.5 mil | 2.5" – 9.0" / 6.0 – 23.0 cm | | |
| 10 mil | 2.5 – 13.0" / 6.0 – 33.0 cm | 9.0" – 22.0" / 23.0 – 56.0 cm | |
| 13 mil | | | 19.0" – 29.0" / 48.0 – 74.0 cm |
| 15 mil | 2.5" – 19.0" / 6.0 – 48.0 cm | 7.0" – 38.0" / 18.0 – 96.0 cm | 20.0" – 50.0" / 51.0 – 127.0 cm |
| 20 mil | *2.5" – 21.0" / 6.0 – 53.0 cm | 7.0" – 45.0" / 18.0 – 114.0 cm | |
| 30 mil | | | 33.0" – 98.0" / 84.0 – 249.0 cm |
| 40 mil | *2.5" – 30.0" / 6.0 – 76.0 cm | 10.0" – 90.0" / 25.0 – 229.0 cm | |
| 55 mil | *2.5" – 36.0" / 6.0 – 91.0 cm | 10.0" – 100.0" / 25.0 – 250.0 cm | 27.0" – 115.0" / 69.0 – 292.0 cm |
| 70 mil | (Reflective) | 60.0" – 180.0" / 152.0 – 457.0 cm | 114.0" – 250.0" / 290.0 – 635.0 cm |
| 100 mil | (Reflective) | 62.0" – 240.0" / 157.0 – 610.0 cm | 125.0" – 360.0" / 318.0 – 914.0 cm |

**Specifications are subject to change without notice.**
Additional information concerning this product or other PSC products and services can be found at the PSC website: **www.pscnet.com**; or contact your PSC representative for more information.